

## Title (en)

Verfahren zur Unterscheidung zwischen nichtinfektiösen und infektiösen Ursachen eines Multiorganversagens

## Title (de)

Verfahren zur Unterscheidung zwischen nichtinfektiösen und infektiösen Ursachen eines Multiorganversagens

## Title (fr)

Beschichtungsverfahren für eine Form, Vorrichtung zur Durchführung dieses Verfahrens und Anwendung bei der Beschichtung von verlorenen Formen im Gießereibetrieb

## Publication

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## Application

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## Abstract (en)

Novel use of a genetic profile expression in vitro drawn from a sample of patient tissue to determine whether a multi-organ failure has an infectious or non-infectious case.

## Abstract (de)

Die vorliegende Erfindung betrifft die Verwendung von in vitro aus einer Patientenprobe erhaltenen Genexpressionsprofilen für die Unterscheidung zwischen nicht infektiösen und infektiösen Ursachen eines Multiorganversagens sowie ein Verfahren zur in vitro Messung von Genexpressionsprofilen und die Verwendung der Genexpressionsprofile und/oder den hierfür verwendeten Sonden zum Screenen von Wirkstoffen gegen nicht infektiöse und/oder infektiöse Ursachen eines Multiorganversagens.

## IPC 8 full level

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- WO 03002763 A1 20030109 - SIRS LAB GMBH [DE], et al
- DE 10340395 A1 20050317 - SIRS LAB GMBH [DE]
- DE 10336511 A1 20050224 - SIRS LAB GMBH [DE]
- DE 10315031 A1 20041014 - SIRS LAB GMBH [DE]
- NATANSON C: "Anti-inflammatory therapies to treat sepsis and septic shock: A reassessment", CRIT CARE MED, vol. 25, 1997, pages 1095 - 1099
- GEIGER K: "Sepsis", 1995, FRÜHPHASE MÜNCHEN MMV MEDIZIN VERLAG, article "Frühparameter für Multiorgandysfunktionssyndrom", pages: 19 - 25
- KNAUS WA ET AL.: "Prognosis in acute organ-system failure", ANN SURG, vol. 202, 1985, pages 658 - 693
- GORIS RI; BOCKHORST TP; NUYTINCK JKS: "Multiple organ failure", ARCH SURG, vol. 120, 1995, pages 1109 - 1115
- VINCENT JL; MORENO R; TAKALA J ET AL.: "The SOFA (Sepsis-related Organ Failure Assessment) score to describe organ dysfunction/failure. On behalf of the Working Group on Sepsis-Related Problems of the European Society of Intensive Care Medicine", INTENSIVE CARE MED., vol. 22, no. 7, July 1996 (1996-07-01), pages 707 - 10
- PFEIFFER L; EHRHARDT N; KRETSCHMAR R ET AL.: "Endotoxinämie und Multiorganversagen nach Polytrauma", ANAESTHESIOLOGIE REANIMAT, vol. 21, 1996, pages 91 - 96
- SCHLAG G; REDL H: "Pathophysiology of shock, sepsis, and organ failure", 1993, BERLIN HEIDELBERG SPRINGER-VERLAG, article "Organ in shock, early organ failure, late organ failure.", pages: 1 - 4
- BONE RC; BALK RA; CERRA FB ET AL.: "The ACCP/SCCM Consensus Conference Committee (1992) Definitions for Sepsis and organ failure and guidelines for the use of innovative therapies in Sepsis", CHEST, vol. 101, 1992, pages 1656 - 1662
- CRIT CARE MED, vol. 20, 1992, pages 864 - 874
- LEVY MM; FINK M; MARSHALL JC ET AL.: "For the International Sepsis Definitions Conference: 2001 SCCM/ESCM/ACCP/ATS/SS International Sepsis Definitions Conference", CRIT CARE MED., vol. 31, no. 4, April 2003 (2003-04-01), pages 1250 - 6
- MARIK PE.: "Gastric intramucosal pH. A better predictor of multiorgan dysfunction syndrome and death than oxygen derived variables in patients with sepsis", CHEST, vol. 104, 1993, pages 225 - 229
- BERNARDIN G; PRADIER C; TIGER F ET AL.: "Blood pressure and arterial lactate level are early indicators of short-term survival in human septic shock", INTENSIV CARE MED, vol. 22, 1996, pages 17 - 25
- MARECAUX G; PINSKY MR; DUPONT E ET AL.: "Blood lactate levels are better prognostic indicators than TNF and IL-6 levels in patients with septic shock", INTENSIV CARE MED, vol. 22, 1996, pages 404 - 408
- DUSWALD KH ET AL.: "Released granulocytic elastase: an indicator of pathobiochemical alterations in septicemia after abdominal surgery", SURGERY, vol. 98, 1985, pages 892 - 899
- NUYTINCK JKS; GORIS RI; REDL H ET AL.: "Posttraumatic complications and inflammatory mediators", ARCH SURG, vol. 121, 1986, pages 886 - 890, XP009104368
- NAST-KOLB D; JOCHUM M; WAYDLAS C ET AL.: "Die Wertigkeit biochemischer Faktoren beim Polytrauma", HEFTE UNFALLHEILKUNDE, vol. 215, 1991, pages 215
- HACK CE; DE GROOT ER; FELT-BERSMA RJ ET AL.: "Increased plasma levels of interleukin-6 in sepsis", BLOOD, vol. 74, 1989, pages 1704 - 1710
- PATEL RT; DEEN KI; YOUNGS D ET AL.: "Interleukin 6 is a prognostic indicator of outcome in severe intra-abdominal sepsis", BR J SURG, vol. 81, 1994, pages 1306 - 1308
- SOUTHERN EM: "An improved method for transferring nucleotides from electrophoresis strips to thin layers of ion-exchange cellulose", ANAL BIOCHEM, vol. 62, 1974, pages 317 - 318, XP024817527, DOI: doi:10.1016/0003-2697(74)90395-9
- GILLESPIE D; SPIEGELMAN S: "A quantitative assay for DNA-RNA hybrids with DNA immobilized on a membrane", J MOL BIOL, vol. 12, 1965, pages 829 - 842, XP026102054, DOI: doi:10.1016/S0022-2836(65)80331-X
- LENNON GG; LEHRACH H: "Hybridization analyses of arrayed cDNA libraries", TRENDS GENET, vol. 7, 1991, pages 314 - 317
- KAFATOS FC; JONES CW; EFSTRATIADIS A: "Determination of nucleic acid sequence homologies and relative concentrations by a dot hybridization procedure", NUCL ACID RES, vol. 7, 1979, pages 1541 - 1552, XP008002176
- FODOR SP ET AL.: "Light-directed, spatially addressable parallel chemical synthesis", SCIENCE, vol. 251, 1991, pages 767 - 773
- PEASE AC ET AL.: "Light-generated oligonucleotide arrays for rapid DNA sequence analysis", PROC NATL ACAD SCI USA, vol. 91, 1994, pages 5022 - 5026, XP000196311, DOI: doi:10.1073/pnas.91.11.5022

- SCHENA M ET AL.: "Quantitative monitoring of gene expression patterns with a complementary DNA microarray", SCIENCE, vol. 270, 1995, pages 467 - 470, XP002925132, DOI: doi:10.1126/science.270.5235.467
- GOLUB TR; SLONIM DK; TAMAYO P ET AL.: "Molecular classification of cancer: class discovery and class prediction by gene expression monitoring", SCIENCE, vol. 286, 1999, pages 531 - 537
- ALIZADEH AA; EISEN MB; DAVIS RE ET AL.: "Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling", NATURE, vol. 403, 2000, pages 503 - 51
- FEEZOR RJ; BAKER HV; XIAO W ET AL.: "Genomic and Proteomic Determinants of outcome in patients undergoing thoracoabdominal aortic aneurysm repair", JOURNAL OF IMMUNOLOGY, vol. 172, no. 11, 2004, pages 7103 - 7109, XP055006794
- HUBER W; HEYDEBRECK A; SUELTMANN H ET AL.: "Parameter estimation for the calibration and variance stabilization of microarray data", STAT. APPL. IN GEN. AND MOL. BIOL., vol. 2, no. 1, 2003, XP008167054, DOI: doi:10.2202/1544-6115.1008

Cited by

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